



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

6MMD-30X

R450A Dew Point

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	20.00								
20.0	19.05	25.20							
25.0	17.85	23.70	30.90	39.70					
30.0	16.60	22.20	29.00	37.30	47.30	59.20			
35.0	15.30	20.60	27.10	35.00	44.40	55.60	68.70	74.50	84.00
40.0	14.00	19.10	25.20	32.60	41.40	52.00	64.30	69.90	78.80
45.0	12.65	17.50	23.30	30.20	38.50	48.40	60.00	65.20	73.60
50.0	11.30	15.90	21.40	27.80	35.60	44.80	55.70	60.60	68.50
55.0	9.89	14.30	19.40	25.50	32.70	41.30	51.40	56.00	63.40
60.0	8.45	12.65	17.45	23.10	29.70	37.70	47.20	51.40	58.40
65.0	6.97	10.95	15.45	20.70	26.80	34.20	42.90	46.90	53.30
70.0	5.49	9.23	13.40	18.25	23.90	30.60	38.70	42.30	48.30
75.0		7.50	11.40	15.80	20.90	27.10	34.40	37.80	43.30
80.0			9.32	13.30	18.00	23.50	30.20	33.20	38.20
85.0			7.26	10.85	15.00	19.95	25.90	28.70	33.20

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	7.75								
20.0	8.02	8.74							
25.0	8.34	9.20	9.95	10.55					
30.0	8.64	9.64	10.55	11.30	11.90	12.35			
35.0	8.92	10.05	11.10	12.05	12.85	13.45	13.85	13.95	14.00
40.0	9.16	10.45	11.65	12.75	13.75	14.55	15.15	15.35	15.55
45.0	9.37	10.80	12.15	13.45	14.60	15.60	16.45	16.75	17.05
50.0	9.54	11.10	12.60	14.05	15.40	16.65	17.70	18.05	18.55
55.0	9.66	11.35	13.00	14.65	16.20	17.60	18.90	19.35	20.00
60.0	9.72	11.55	13.40	15.20	16.90	18.55	20.10	20.60	21.40
65.0	9.73	11.70	13.70	15.65	17.60	19.40	21.10	21.80	22.70
70.0	9.67	11.80	13.90	16.05	18.20	20.20	22.20	22.90	24.00
75.0		11.80	14.10	16.40	18.70	21.00	23.10	24.00	25.20
80.0			14.20	16.70	19.20	21.70	24.00	25.00	26.30
85.0			14.20	16.90	19.55	22.20	24.90	25.90	27.40

50 Hz

6MMD-30X

R450A Dew Point

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	22.93								
20.0	23.11	23.68							
25.0	23.35	24.05	24.75	25.35					
30.0	23.60	24.44	25.31	26.11	26.79	27.24			
35.0	23.85	24.83	25.87	26.88	27.79	28.52	28.98	29.07	29.09
40.0	24.08	25.22	26.43	27.66	28.80	29.80	30.56	30.78	31.01
45.0	24.29	25.58	26.98	28.42	29.81	31.08	32.15	32.50	32.93
50.0	24.45	25.90	27.49	29.15	30.80	32.35	33.73	34.21	34.86
55.0	24.57	26.18	27.97	29.86	31.76	33.60	35.29	35.91	36.76
60.0	24.62	26.40	28.39	30.51	32.67	34.80	36.82	37.58	38.65
65.0	24.59	26.55	28.75	31.10	33.53	35.96	38.31	39.20	40.49
70.0	24.48	26.62	29.03	31.63	34.33	37.06	39.74	40.78	42.29
75.0		26.60	29.22	32.07	35.05	38.08	41.10	42.28	44.02
80.0			29.32	32.41	35.67	39.02	42.39	43.71	45.68
85.0			29.29	32.65	36.20	39.87	43.58	45.05	47.25

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	125.50								
20.0	123.50	159.50							
25.0	121.00	157.00	201.00	252.00					
30.0	118.50	154.50	197.50	248.00	308.00	377.00			
35.0	115.00	151.00	194.00	244.00	303.00	370.00	448.00	482.00	536.00
40.0	111.50	148.00	190.00	240.00	297.00	364.00	441.00	474.00	528.00
45.0	107.00	144.00	186.00	235.00	292.00	357.00	433.00	466.00	519.00
50.0	102.00	139.50	181.50	230.00	286.00	351.00	425.00	457.00	510.00
55.0	95.90	134.00	176.50	225.00	280.00	343.00	416.00	449.00	500.00
60.0	88.60	128.00	170.50	218.00	273.00	336.00	408.00	439.00	491.00
65.0	79.80	120.50	164.00	211.00	265.00	327.00	398.00	430.00	480.00
70.0	69.30	111.50	156.00	204.00	257.00	318.00	388.00	419.00	469.00
75.0		101.00	146.50	194.50	248.00	308.00	378.00	408.00	458.00
80.0			135.00	184.00	237.00	297.00	366.00	397.00	446.00
85.0			121.50	172.00	226.00	286.00	354.00	385.00	434.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	221
Suction, inch	2 1/8
Discharge, inch	1 3/8
Oil Quantity, l	3.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	381 x 305 (18)
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
Sound Power with Sound Shell (MT), dBA	67
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Digital Modulation	33-100%
Refrigerant's GWP	605
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	59.7
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Sensor
Mounting Parts	Spring
Copeland Compressor Electronic (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

ACCESSORIES OPTIONAL

Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Digital Driver	EC3-D23
Digital Modulation	33-66%
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
Copeland Compressor Electronic module	Modbus extension module
Discharge Shut-off	Angle valve

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
AWM	380-420 V / 3~ / 50 Hz	400	YYY	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	Y	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWC	208-230 V / 3~ / 60 Hz	230	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00